

Serial # _____

~~RP-6 Phasing Data Sheet~~

Unit # _____

Tested by: _____

Date: _____

POWER OUTPUT CHART

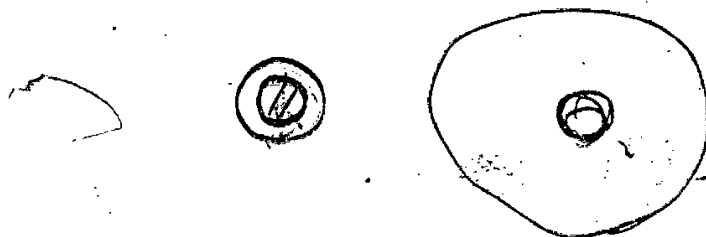
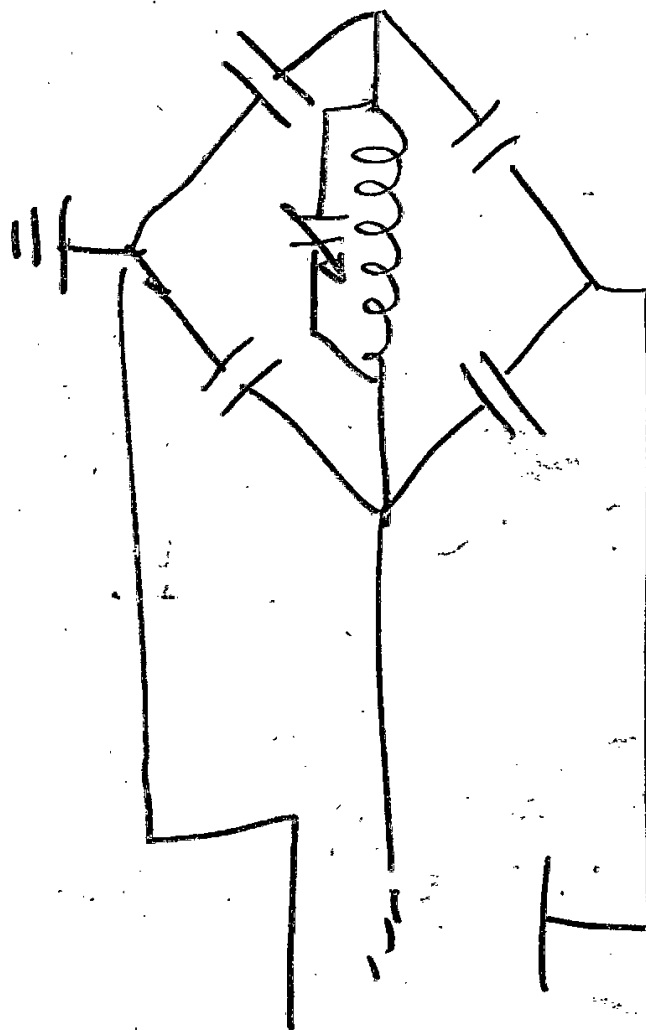
Ip. 75 ohms 171 152

Frequency	Band	#147 75 ohms	150 ohms	300 ohms	600 ohms	1200 ohms
3 mc. Fund	Lo	73	74	70		
6 mc. 2nd.	Lo	67	68	68		
9 mc. 3rd.	H1	76	76	72		
5.5 mc. Fund	Lo					
11 mc. 2nd.	H1					
16.5 mc. 3rd.	H1	67	68	64		
7 mc. Fund.	Lo	71	70	70		
7 mc. Fund.	H1	76	80	75		
14 mc. 2nd	H1	69	70	68		

MONITOR (SIDETONE) check: _____

HAND KEY @ OPERATION: _____

Remarks: _____



SERIAL NO. _____

DATE: _____

Power Output GP-23 Chart

Frequency	Band	75 ohms	150 ohms	300 ohms	600 ohms	1200 ohms
3 mc. Fund	lo					
6 mc. 2nd	lo					
9 mc. 3rd	hi					
5.5 mc. Fund	lo					
11 mc. 2nd	hi					
16.5 mc. 3rd	hi					
7 mc. Fund.	lo					
7 mc. Fund	hi					
14 mc. 2nd	hi					

MC

un.

un. 4.12

9 low

71 ma.

70 ma.

→ 7 hi

83

76

14

72

70

3

76

72

6

68

63

9

80

75

16.5

~~70~~ 70

68

Titan In.

(136)

RECHARGING CURRENT
 POWER
 OUTPUT

amps

B+ 400

240, 1, lead charged
 01 per cent

FREQ	Harmonic	Band	AC	DC	AC	DC	AC	DC	AC	DC
			75 ohms	50 ohms	200 ohms	600 ohms	75 ohms	50 ohms	200 ohms	600 ohms
1	Fundamental	low	9.8	9.3	10.4	10.7	10.2			
2	2nd	low	12.0	12.9	13.7	13.3	13.1			
3	3rd	high	8.7	8.7	9.0	9.4	9.0			
4	Fundamental	low	12.9	12.9	13.2	13.2	13.1			
5	2nd	high	11.2	10.7	10.8	10.7	10.8			
6	3rd	high	13.6	12.9	12.4	11.2	10.8			
7	Fundamental	low	12.9	14.1	14.5	13.3	11.2			
8	Fundamental	high	5.9	5.8	5.9	6.0	5.8			
9	2nd	high	12.0	11.8	11.2	10.9	10.5			

ANDERSON TEST
 AND LAYING

High Speed Keying

Automatic Keying

Test Level volts

Noise Level volts

PERCENT ACCURACY

BFO TEST

SENSITIVITY

CRYSTAL SENSITIVITY
 (Crystal Freq 5 mc)

Low Band	uv.	6.5 mc	uv.	High Band	uv.
	uv.	10 mc	uv.		uv.
	uv.	14 mc	uv.		uv.
	uv.	15 mc	uv.		uv.

1.5 uv

uv.

High Band - 5 mc

STAT

RS-FINAL TEST DATA SHEET

SERIAL#

BATTERY CHARGING CURRENT
TRANSMITTER UNIT POWER
OUTPUT

AMPS.

NO READING

B 400

240, 1, lead changed
101 reinserted

			AC	DC	AC	DC	AC	DC	AC	DC	AC	DC	AC	DC
Frequency Harmonic Band			75 ohms		50 ohms		300 ohms		600 ohms		1200 ohms			
3 mc	Fundamental	low	9.0		9.1		9.3		9.9		9.7			
6 mc	2nd	low	12.0		12.9		13.2		13.3		12.8			
9 mc	3rd	high	8.4		8.0		8.3		8.7		8.3			
5.5 mc	Fundamental	low	12.4		12.9		13.2		13.3		12.4			
11 mc	2nd	high	10.4		10.1		9.3		10.2		10.1			
16.5 mc	3rd	high	12.8		12.3		11.6		10.1		10.1			
7 mc	Fundamental	low	12.0		12.9		12.8		12.4		10.2			
7 mc	Fundamental	high	7.7		8.2		7.7		8.2		7.7			
14 mc	2nd	high	12.4		11.8		11.4		10.7		10.1			

KEYING WAVEFORM TEST

HAND KEYING

high

SPEED KEYING

AUTOMATIC KEYING

HASH LEVEL

volts

NOISE LEVEL

volts

CALIBRATION

RFO

TEST

SENSITIVITY

Low Band

High Band

3 mc uv

6.5 mc mv

4.545 uv

3.5 mc uv

10 Mc uv

9.545 uv

4.5 mc uv

14 mc uv

14.545 uv

6.5 mc uv

15 Mc uv

SIGNAL TO NOISE

Low Band - 3.5 mc uv.

High Band - 7 mc uv

AIR TEST (STATION W/V)

Local oscillator

Crystal controlled oscillator

MONITOR (side tone) TEST

DATE 3-2

FINAL T

STAT

RS-FINAL TEST DATA SHEET

SERIAL#

B

58

BATTERY CHARGING CURRENT
TRANSMITTER UNIT POWER
OUTPUT

AMPS.

2nd check

B+ 400

240, 1, lead changed.
101 rewired.

			AC	DC	AC	DC	AC	DC	AC	DC	AC	DC
Frequency Harmonic Band			75 ohms		50 ohms		300 ohms		600 ohms		1200 ohms	
3 mc	Fundamental	low	8.4		9.1		9.6		9.9		9.3	
6 mc	2nd	low	12.8		13.5		14.1		14.1		13.1	
9 mc	3rd	high	7.7		7.7		8.0		8.2		7.7	
5.5 mc	Fundamental	low	12.4		12.9		13.2		13.2		12.4	
11 mc	2nd	high	10.5		10.1		10.4		10.1		10.2	
16.5 mc	3rd	high	12.8		12.3		12.0		10.1		10.2	
7 mc	Fundamental	low	12.0		12.9		13.7		12.0		11.2	
7 mc	Fundamental	high	5.8		6.9		7.1		7.5		6.9	
1 1/4 mc	2nd	high	12.0		11.2		10.8		10.1		10.1	

KEYING WAVEFORM TEST

HAND KEYING

high

SPEED KEYING

AUTOMATIC KEYING

HASH LEVEL

volts

NOISE LEVEL

volts

CALIBRATION

BFO

TEST

SENSITIVITY

Low Band

High Band

CRYSTAL SENSITIVITY
(Crystal freq. 5 mc)

3 mc uv

6.5 mc uv

4.545 uv

3.5 mc uv

10 Mc uv

9.545 uv

4.5 mc uv

14 mc uv

14.545 uv

6.5 mc uv

15 Mc uv

SIGNAL TO NOISE

Low Band - 3.5 mc uv.

High Band - 7 mc uv

AIR TEST (STATION W/V)

Local oscillator

Crystal controlled oscillator

MONITOR (side tone) TEST

DATE

FINAL TEST

STAT

3MC. - 1200 Ω



- 12.8
- 10.1
- 10.1
- 10.1
- 10.1

OPEN RESISTOR - 10.1

STAT

RS-FINAL TEST DATA SHEET

SERIAL#

(3)

A

B

(148)

BATTERY CHARGING CURRENT _____ AMPS.
TRANSMITTER UNIT POWER
OUTPUT

2ND READING

B+3400

240, 1, lead changed
101 resulted.

			AC	DC	AC	DC	AC	DC	AC	DC	AC	DC
Frequency Harmonic Band			75 ohms		50 ohms		300 ohms		600 ohms		1200 ohms	
3 mc	Fundamental	low	9.0		9.1		9.9		9.9		10.1	
6 mc	2nd	low	12.8		12.9		13.2		13.3		13.1	
9 mc	3rd	high	7.1		7.1		7.4		7.7		6.9	
5.5 mc	Fundamental	low	12.8		12.3		12.8		12.9		12.8	
11 mc	2nd	high	10.5		10.1		10.4		10.4		10.1	
16.5 mc	3rd	high	12.0		12.3		12.0		10.1		10.1	
7 mc	Fundamental	low	12.0		12.9		13.2		11.8		11.2	
7 mc	Fundamental	high	7.1		7.1		7.2		7.7		7.0	
14 mc	2nd	high	12.0		11.8		11.6		10.7		10.2	

KEYING WAVEFORM TEST

HAND KEYING _____ high

SPEED KEYING _____

AUTOMATIC KEYING _____

HASTY LEVEL _____ volts

NOISE LEVEL _____ volts

CALIBRATION _____ BFO

TEST _____

SENSITIVITY

Low Band

High Band

3 mc _____ uv

6.5 mc _____ mv

4.545 _____ uv

3.5 mc _____ uv

10 Mc _____ uv

9.545 _____ uv

4.5 mc _____ uv

14 mc _____ uv

14.545 _____ uv

6.5 mc _____ uv

15 Mc _____ uv

SIGNAL TO NOISE

Low Band - 3.5 mc _____ uv.

High Band - 7 mc _____ uv

AIR TEST (STATION W/V)

STAT

Local oscillator _____

Crystal controlled oscillator _____

MONITOR (side tone) TEST

DATE 3-2

FINAL TESTER

BATTERY CHARGING CURRENT
TRANSMITTER UNIT POWER
OUTPUT

AMPS.

C

D

* 400 volts.

2ND CHECK-

240, 1, lead changed
101 rerouted

Frequency Harmonic	Band	AC		DC		AC		DC		AC		DC		AC		DC	
		75 ohms		150 ohms		300 ohms		600 ohms		1200 ohms		1200 ohms		1200 ohms		1200 ohms	
3 mc Fundamental	low	8.4		8.7		9.0	9.0	8.7		8.3							
6 mc 2nd	low	11.2		12.3		13.2		11.8		11.93							
9 mc 3rd	high	7.1		7.65		7.65		7.64		7.64							
5.5 mc Fundamental	low	10.9		11.2		12.0		11.8		11.6							
11 mc 2nd	high	9.0		8.7		9.4		9.1		8.8							
16.5 mc 3rd	high	11.2		10.4		10.4		9.4		8.0							
7 mc Fundamental	low	10.9		11.8		12.0		10.4		7.04							
7 mc Fundamental	high	6.5		6.8		7.0		6.4									
14 mc 2nd	high	10.1		9.6		9.1		9.6		8.5							

KEYING WAVEFORM TEST

HAND KEYING

High Speed Keying

Automatic Keying

High level _____ volts

Noise Level _____ volts

CALIBRATION ACCURACY

Hz

TEST

IN ONE POSITION
CRYSTAL SENSITIVITY
(Crystal freq. 5 mc)

SENSITIVITY

Low Band

High Band

3 mc _____ uv

6.5 mc _____ uv

4.545 _____ uv

3.5 mc _____ uv

10 mc _____ uv

9.545 _____ uv

4.5 mc _____ uv

14 mc _____ uv

14.545 _____ uv

6.5 mc _____ uv

15 mc _____ uv

SIGNAL TO NOISE

Low Band - 3.5 mc _____ uv.

High Band - 7 mc _____ uv

AIR TEST (STATION WWV)

Local oscillator

Crystal controlled oscillator

MONITOR (side tone) TEST

DATE

3-2

FINAL TESTER

STAT

BATTERY CHARGING CURRENT 4.9 AMPS.
TRANSMITTER UNIT POWER OUTPUT

A
B
C
D

2ND READING 240, 1, lead changed 01 minutes

Frequency Harmonic	Band	75 chms		150 chms		300 chms		600 chms		1200 chms	
		AC	DC	AC	DC	AC	DC	AC	DC	AC	DC
3 mc Fundamental	low	9.4		9.8		10.4		10.14		10.83	
6 mc 2nd	low	12.8		13.5		14.08		13.8		13.1	
9 mc 3rd	high	8.4		7.5		8.2		7.93		7.8	
5.5 mc Fundamental	low	12.4		12.9		14.08		13.33		13.6	
11 mc 2nd	high	10.45		10.06		10.6		9.88		9.9	
16.5 mc 3rd	high	13.2		11.76		12.0		9.88		9.37	
7 mc Fundamental	low	12.4		13.5		13.55		12.4		9.01	
7 mc Fundamental	high	7.4		7.25		7.68		7.48		7.52	
14 mc 2nd	high	12.0		11.17		10.42		10.14		10.1	

KEYING WAVEFORM TEST

HAND KEYING _____ High Speed Keying _____ Automatic keying _____

Hash level _____ volts Noise Level _____ volts

CALIBRATION ACCURACY _____ HFO TEST _____

SENSITIVITY

Low Band

High Band

3 mc _____ uv
3.5 mc _____ uv
4.5 mc _____ uv
6.5 mc _____ uv

6.5 mc _____ uv
10 mc _____ uv
14 mc _____ uv
15 mc _____ uv

CRYSTAL SENSITIVITY

Crystal freq. 5 mc)

4.545 _____ uv
9.545 _____ uv
14.545 _____ uv

SIGNAL TO NOISE

Low Band - 3.5 mc _____ uv.

High Band - 7 mc _____ uv

AIR TEST (STATION WWV)

Local oscillator _____

Crystal controlled oscillator _____

MONITOR (side tone) TEST

PAGE 3-253

FINAL TEST

19

SERIAL#

B 171BATTERY CHARGING CURRENT
TRANSMITTER UNIT POWER
OUTPUT

APPS.

C

D

2nd reading
240, 1, lead changes, 01 percent

Frequency	Harmonic	Band	75 chms		150 chms		300 chms		600 chms		1200 chms	
			AC	DC	AC	DC	AC	DC	AC	DC	AC	DC
3 mc	Fundamental	low	9.0	7.1	9.6	7.7	6.8	8.0	9.9	8.4	10.1	8.0
6 mc	2nd	low	12.0	10.5	12.9		13.6		12.4		12.0	
9 mc	3rd	high	6.5	6.5	6.9	6.4	7.4	6.5	6.2	6.2	6.0	6.0
3.5 mc	Fundamental	low	11.2	10.5	11.7		12.8		12.4		12.0	
11 mc	2nd	high	10.5	9.0	9.6		10.0		9.1		9.0	
16.5 mc	3rd	high	12.0	11.2	11.7	10.1	11.2	9.7	9.4	8.2	8.7	7.4
7 mc	Fundamental	low	11.2	10.5	12.9		12.8		10.1		6.7	Low
7 mc	Fundamental	high	7.1	5.4	7.3		7.4		7.0		6.7	
14 mc	2nd	high	12.0	10.5	10.7	9.6	11.2	9.4	10.1	8.9	9.7	8.3

KEYING WAVEFORM TEST

HAND KEYING Normal High Speed KeyingAutomatic keying Normal

Hash level _____ volts

Noise Level _____ volts

CALIBRATION ACCURACY

IND

SENSITIVITY

Low Band

High Band

3 mc _____ uv

6.5 mc _____ uv

1.5 mc _____ uv

3.5 mc _____ uv

10 mc _____ uv

9.5 mc _____ uv

4.5 mc _____ uv

14 mc _____ uv

14.5 mc _____ uv

6.5 mc _____ uv

15 mc _____ uv

SIGNAL TO NOISE

Low Band - 3.5 mc _____ uv.

High Band - 7 mc _____ uv

AIR TEST (STATION WWV)

Local oscillator

Crystal controlled oscillator

MONITOR (side tone) TEST

Normal

STAT

UNITED STATES DATA SHEET

UNIT #

B

SERIAL #

59

amps.

240, 1, lead changed.
101 rerouted.TAPERY CHARGING CURRENT
UNIT POWER
OUTPUT

			AC	DC	AC	DC	AC	DC	AC	DC	AC	DC
			75 ohms	50 ohms	300 ohms	600 ohms	300 ohms	600 ohms	300 ohms	600 ohms	300 ohms	600 ohms
3 mc	Fundamental	low	8.4	8.7	9.0	8.7	9.3					
5 mc	2nd	low	12.0	12.3	12.8	10.7	13.1					
5 mc	3rd	high	7.7	7.5	7.7	8.2	8.2					
5 mc	Fundamental	low	11.2	11.8	12.0	10.7	12.8					
1 mc	2nd	high	9.8	9.8	9.3	9.6	9.7					
1 mc	3rd	high	12.4	11.2	11.2	9.6	9.37					
1 mc	Fundamental	low	12.0	12.3	12.8	10.7	10.1					
1 mc	Fundamental	high	6.8	7.05	7.05	7.04	7.04					
1 mc	2nd	high	11.2	10.7	10.6	10.1	9.9					

TAPING WAVEFORM TEST

HAND KEYING

High Speed Keying

Automatic keying

Push level

volts

Noise level

volts

REPRODUCTION ACCURACY

BFO

TEST

SENSITIVITY

CRYSTAL SENSITIVITY

(Crystal freq. 5 mc)

Low Band

High Band

10 uv.

6.5 mc

uv.

4.845

uv.

uv.

10 mc

uv.

3.845

uv.

uv.

14 mc

uv.

14.845

uv.

uv.

18 mc

uv.

CIR

100 - 5-5 mc

uv.

High Band

BOOTN

STAT

OUT OF

SERIAL#

B 51

BATTERY CHARGING CURRENT
TRANSMITTER UNIT LOW R
OUTPUT

AMPS.

C #136

B #379

C B+ = 400 Volts

D.

2ND READING

240, 1 lead changed, 101 rerouted

Frequency	Harmonic	Band	AC	DC	AC	DC	AC	DC	AC	DC	AC	DC
			75 ohms	150 ohms	300 ohms	600 ohms	1200 ohms	1200 ohms	1200 ohms	1200 ohms	1200 ohms	1200 ohms
3 mc	Fundamental	low	9.0	7.7	9.6	7.7	10.0	7.8	9.6	8.4	10.1	8.0
6 mc	2nd	low	11.2	9.8	13.5	13.6	12.9	12.4	12.4	12.4	12.4	12.4
9 mc	3rd	high	8.4	5.4	8.2	5.6	8.3	5.9	7.5	5.8	7.4	5.7
5 mc	Fundamental	low	11.6	9.8	12.9	13.5	12.4	12.4	12.4	12.4	12.4	12.4
11 mc	2nd	high	10.9	8.4	10.1	10.4	9.6	9.4	9.4	9.4	9.4	9.4
6.5 mc	3rd	high	12.4	10.5	11.7	9.6	12.0	9.0	9.6	7.7	9.4	7.2
7 mc	Fundamental	low	11.6	10.1	12.9	13.6	11.8	8.3	8.3	8.3	8.3	8.3
7 mc	Fundamental	high	7.1	5.2	7.3	7.4	7.5	7.2	7.2	7.2	7.2	7.2
11 mc	2nd	high	12.0	9.8	11.7	9.1	11.2	9.0	10.4	8.4	10.1	7.7

KEYING WAVEFORM TEST 3+7 mc (Hiz & Lo) No Ind. of ANY oscillations

HAND KEYING Normal High Speed KeyingAutomatic keying Normal

Hash level _____ volts

Noise Level _____ volts

CALIBRATION ACCURACY

WFO

TEST

SENSITIVITY

CRYSTAL SENSITIVITY
(Crystal freq. 5 mc)

Low Band

High Band

3 mc _____ uv

6.5 mc _____ uv

14.545 _____ uv

3.5 mc _____ uv

10 mc _____ uv

9.545 _____ uv

4.5 mc _____ uv

14 mc _____ uv

14.545 _____ uv

6.5 mc _____ uv

15 mc _____ uv

SIGNAL TO NOISE

Low Band - 3.5 mc _____ uv.

High Band - 7 mc _____ uv

AIR TEST (STATION WWV)

Local oscillator _____

Crystal controlled oscillator _____

MONITOR (side tone) TEST

Normal

STAT